

# Bérénice Batut

POST-DOCTORAL RESEARCHER · BIOINFORMATICS & TRAINING

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## Education

### Doctor in science

INSTITUT NATIONAL DES SCIENCES APPLIQUÉES

- In silico experimental evolution
- Comparative genomics with phylogeny

Lyon, France

Oct. 2011 - Nov. 2014

### Master degree

ECOLE NORMALE SUPÉRIEURE & UNIVERSITY CLAUDE BERNARD

- Theoretical computer science
- Complex system modelling

Lyon, France

Oct. 2010 - Oct. 2011

### Master of Engineering

INSTITUT NATIONAL DES SCIENCES APPLIQUÉES

- Bioinformatics and Modelling

Lyon, France

Oct. 2018 - Oct. 2019

## Skills

<b>Bioinformatics</b>	HTS data analysis (RNA-Seq, metagenomics), comparative microbial genomics, phylogenetics
<b>Software development</b>	Python, R
<b>Training</b>	Data analysis, Galaxy, Software development, Software Carpentry instructor
<b>Community</b>	Galaxy Traing community manager, Mozilla Open Leader, Software Carpentry mentor
<b>Languages</b>	French (native), English, German (B2)

## Experience

### Post-doctoral researcher

GALAXY TEAM, BACKOFEN LAB, UNIVERSITY OF FREIBURG

- Data analysis of High-Throughput sequencing data (RNA-seq, metagenomics, etc)
- Training on Galaxy use, data analysis and software development
- Development and maintenance of the Training Material repository of the Galaxy Training Network
- Management of Galaxy Training community
- Member of the training group of de.NBI, the German Network for Bioinformatics infrastructure
- Development of command-line tools, tools for Galaxy, packages for BioConda
- Teaching to computer science master students

Freiburg, Germany

Aug. 2016 - Today

### Post-doctoral researcher

CIDAM, UNIVERSITÉ D'Auvergne

- Development of metagenomics tools for Galaxy
- Data analysis of metagenomics data
- Teaching to bioinformatics undergrad students

Clermont-Ferrand, France

Jan. 2015 - Jun. 2016

### PhD student & researcher

INSTITUT NATIONAL DES SCIENCES APPLIQUÉES

- In silico experimental evolution
- Comparative genomics with phylogeny
- Teaching to bioinformatics undergrad students

Lyon, France

Oct. 2011 - Nov. 2014

## Extracurricular Activity

### Mozilla Open Leader

MOZILLA FOUNDATION

- Mentoring
- 14 week leadership development program

Sep. 2018 - Today

## Mentor

THE CARPENTRIES

Sep. 2018 - Today

- Mentoring on community building and material development

## Member

TRAINING GROUP (SIG3) OF THE GERMAN NETWORK FOR BIOINFORMATICS INFRASTRUCTURE

Dec. 2016 - Today

## Instructor

THE CARPENTRIES

March. 2016 - Today

- Training for foundational computational and data science skills to researchers
- Unix Shell, Version Control with Git, Plotting and Programming with Python and R

## Training & Teaching

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The complete list of publications can be found: <http://research.bebatut.fr/training>

### 2019

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|---------|---|-------------------|
| Sep. 18 | <b>Galaxy data analysis (introduction, ChIP-seq, RNA-seq)</b> , 5 days workshop | Freiburg, Germany |
| Jan. 22 | <b>Galaxy RNA-seq data analysis</b> , 2 days workshop                           | Belgrade, Serbia  |

### 2018

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|----------------------|--|-------------------------|
| Oct. 18 -<br>Feb. 19 | <b>Introduction to data-driven life science</b> , Lectures and exercises to computer science master students | Freiburg, Germany       |
| Dec. 18              | <b>Galaxy RNA-seq data analysis</b> , 2 days workshop  | Freiburg, Germany       |
| Sep. 18              | <b>Galaxy data analysis (introduction, ChIP-seq, RNA-seq)</b> , 5 days workshop                              | Freiburg, Germany       |
| Jun. 18              | <b>Galaxy Introduction and Galaxy for Training</b> , 2 2.5 h workshops at the Galaxy Community Conference    | Portland, US            |
| May. 18              | <b>Genomics Data Carpentry (R, shell)</b> , 2 days workshop  | Dublin, Ireland         |
| Apr. 18              | <b>Galaxy data analysis (introduction, metagenomics)</b> , 2 days workshop                                   | Cape Town, South Africa |
| Feb. 18              | <b>Galaxy data analysis (introduction, ChIP-seq, RNA-seq)</b> , 5 days workshop                              | Freiburg, Germany       |

## Publications

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The complete list of publications is available online: <http://research.bebatut.fr/publications>

The Galaxy platform for accessible, reproducible and collaborative biomedical analyses: 2018 update.

Batut B et al Afgan E

*Nucleic acids research* (May 2018). 2018

ASaiM: a Galaxy-based framework to analyze microbiota data

Batut B al

*GigaScience* (May 2018). Oxford University Press (OUP), 2018

Community-Driven Data Analysis Training for Biology.

Batut B al

*Cell systems* (June 2018). 2018

The RNA workbench: Best practices for RNA and high-throughput sequencing bioinformatics in Galaxy

Grüning B A, J. Fallmann, D. Yusuf, S. Will, A. Erxleben, F. Eggenhofer, T. Houwaart, Batut B al

*Nucleic Acids Research* 45.W1 (2017) W560–W566. 2017

ENASearch: A Python library for interacting with ENA's API

Batut B, Gruening B A

*The Journal of Open Source Software* (2017). 2017

Environmental pollutant Benzo[a]Pyrene impacts the volatile metabolome and transcriptome of the human gut microbiota

Defois C, Ratel J, Denis S, Batut B al

*Frontiers in Microbiology* 8.AUG (2017). 2017

Four simple recommendations to encourage best practices in research software

Jiménez R J, Kuzak M, Alhamdoosh M, Barker M, Batut B al

*F1000Research* 6 (June 2017) p. 876. F1000 Research, Ltd., 2017